

Title (en)
SURGICAL VAPORISATION ELECTRODE

Title (de)
CHIRURGISCHE VAPORISATIONSELEKTRODE

Title (fr)
ÉLECTRODE CHIRURGICALE DE VAPORISATION

Publication
EP 3173044 B1 20190522 (DE)

Application
EP 16198105 A 20161110

Priority
DE 102015015314 A 20151126

Abstract (en)
[origin: US2017151010A1] A working surface of the electrode head, designed to be essentially hemispherical in shape, is made of a suitable high-temperature-resistant metal. The electrode head is supplied with power via an electrical connecting line. The rear surface of the electrode head forming the sectional surface of the hemisphere is planar and is covered with an insulating cover made of a ceramic material. The transitional region from the working surface to the rear surface does not have an edge but instead is rounded with a minimum radius of curvature, which is substantially greater than one-thirtieth of the width, which corresponds to the hemisphere diameter (=twice the radius of the hemisphere), which is the dimension of the electrode head in the direction of its maximum extent. The relatively large radius of curvature prevents the main activity of the electrode from occurring at its boundary due to excessively high local current densities.

IPC 8 full level
A61B 18/14 (2006.01); **A61B 18/00** (2006.01)

CPC (source: EP US)
A61B 18/14 (2013.01 - EP US); **A61B 2018/00077** (2013.01 - EP US); **A61B 2018/00107** (2013.01 - EP US); **A61B 2018/00178** (2013.01 - EP US); **A61B 2018/00601** (2013.01 - EP US); **A61B 2018/00625** (2013.01 - EP US); **A61B 2018/1417** (2013.01 - EP US); **A61B 2018/142** (2013.01 - EP US)

Citation (examination)
• US 2011066145 A1 20110317 - EPSTEIN RICHARD [US], et al
• DE 29521028 U1 19960822 - WOLF GMBH RICHARD [DE]

Cited by
CN112370148A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 16198105 A 20161110; DE 102015015314 A 20151126; US 201615362276 A 20161128